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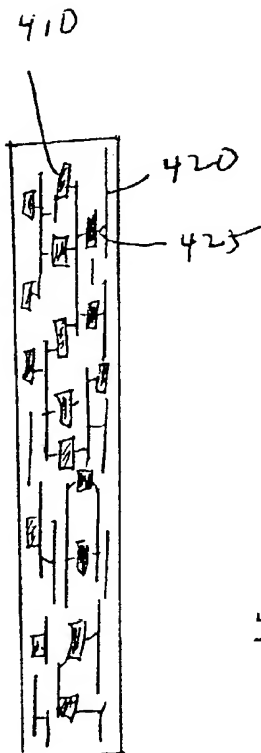
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(54) Title: NON-COVALENT BONDING AGENT FOR CARBON NANOTUBE REINFORCED POLYMER COMPOSITES

(57) Abstract: A non-covalent bonding agent for carbon nanotube-reinforced polymer composites. The composites includes a polymeric solid state continuous phase and one or more carbon nanotubes dispersed in the continuous phase. The carbon nanotubes are joined to the polymer through the use of a bonding agent that mechanically couples the polymer chains to the carbon nanotubes. The bonding agent is non-covalently bonded to the carbon nanotube in a manner that retains substantially all of the properties of the carbon nanotube material and therefore permitting the carbon nanotubes to reinforce the polymer composite. The polymer composites may include a variety of different base polymers and may be used in a variety of applications.



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